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LIST

OF A COLLECTION OF DRIED PLANTS MADE BY L. J. XANTUS, AT FORT TEJON, AND VICINITY, CALIFORNIA, NEAR LAT. 35°, AND LONG. 119,° 1857–8. BY ASA GRAY, M. D.

1. Clematis ligusticifolia, *Nutt.*
2. Delphinium Menziesii, *DC.*
3. Eschscholtzia Californica, *Cham.*
4. Eschscholtzia tenuifolia, *Benth.*
5. Dicentra (Chrysocapnos, *Torr.*) chrysantha, *H. & A.*
6. Meconopsis heterophylla, *Benth.*
7. Streptanthus heterophyllus, *Nutt.*
8. Erysimum asperum, *DC.* var. (elatum, *Nutt.*)
9. Raphanus sativus, *Linn.* "In cañons, &c."
10. Isomeris arborea, *Nutt.*
11. Viola pedunculata, var. petalis 2 superioribus extus præsertim fusco-purpureis.
12. Silene Californica, *Durand*, (var. of S. laciniata.)
13. Calandrinia Menziesii, *Hook.*
14. Claytonia perfoliata, *Don.*
15. Sidalcea malvæflora, *Gray.*
16. Fremontia Californica, *Torr.*
17. Erodium cicutarium, *L'Her.*
18. Frangula Californica, *Gray.*
19. Rhus diversiloba, *Torr. & Gr.*
20. Æsculus Californica, *Nutt.*
21. Lupinus microcarpus, *Sims.*
22. " bicolor, *Lindl.*
23. " leptophyllus, *Benth.* var. foliolis latioribus.
24. Hosackia Purshiana, *Benth.*
25. " scoparia, *Nutt.*
26. Cercocarpus parvifolius, *Nutt.*
27. Œnothera biennis, *L.* var.
28. " bistorta, *Nutt.?*
29. " tenella, *Cav.*
29 *a*. " rubicunda, *Lindl.*
30. Clarkia elegans, *Lindl.*

31. CLARKIA XANTIANA (sp. nov.): foliis linearibus seu lanceolatis; floribus quasi racemosis; calycis tubo ore villosissimo; petalis cuneatis altè bilobis cum lacinulâ subulatâ interpositâ deorsum in unguiculam latam edentatam sensim angustatis; staminibus 8 fertilibus; stigmatis lobis latè ovalibus brevibus; capsulâ sessili.—An interesting species from its holding an intermediate position between the original *Clarkia pulchella* and *C.* (*Phœostoma*, Spach.) *elegans*; the foliage (which, with the ovaries and flower-buds, is minutely cinereous-puberulent) resembling the former, as do the lobed petals, but here the middle lobe is reduced to a mere lacinula, and the broader and shorter

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claw is toothless; while the blossoms are racemosely disposed along the simple stem or branches as in *C. elegans*, in bud strongly drooping. There are no scales at the base of the filaments; but the throat of the short funnel-form tube of the calyx is evenly and densely bearded with villous hairs. Petals purple or pink, often with a deeper-colored spot toward the base of the blade. Capsules rather slender, sessile, or the lowest subsessile.

32. Zauschneria Californica, *Presl.*
33. Epilobium coloratum, *Muhl.*
34. Mentzelia albicaulis, *Dougl.*
35. Megarrhiza Californica, *Torr.*
36. Cicuta maculata, *L.*
37. Berula angustifolia, *Koch.*
38. Edosmia Gairdneri, *Nutt.*
39. Peucedanum utriculatum, *Nutt.*
40. Galium boreale, *L. var.*
41. Erigeron Douglasii, *Torr. & Gray.*
42. Balsamorhiza deltoidea, *Nutt.*
43. Leptosyne Douglasii, *DC.*
44. Helianthus lenticularis, *Dougl.*
45. Chœnactis glabriuscula, *DC. var.* megacephala, *Gray, in Pl. Whippl.*
46. Burrielia gracilis, *DC.*
47. Bahia confertiflora, *DC.*
48. Bahia Wallacei, *Gray, in Pl. Whippl.*
49. Monolopia major, *DC.*
50. Layia gaillardioides, *Hook. & Arn. var.* pappo albo; foliis pinnatifidis.
51. Madaria corymbosa, *DC.*
52. Achillea Millefolium, *L.*
53. Senecio Douglasii, *DC.*
54. Sonchus asper, *Vill.*
55. Calais linearifolia, *DC.*
56. Macrorhynchus grandiflorus, *Nutt.*
57. Arctostaphylos glauca, *Lindl.*
58. Collinsia bicolor, *Benth.*
59. " " *var.* parviflora.
60. Scrophularia nodosa, *L.*
61. Pentstemon centranthifolius, *Benth.* fol. latioribus.

62. PENTSTEMON BREVIFLORUS, *Lindl. var.* Shrubby; lower leaves short (half an inch or less in length,) oblong or somewhat obovate, very obtuse; sepals glandularvillous (as they are, less conspicuously, in Douglas's specimens); corolla strongly bearded, especially at the summit of the lobes, with long and glandular hairs. The expression "labio superiore villoso" does not adequately express it.

63. PENTSTEMON TERNATUS (*Torr. in Mex. Bound. Surv.*) glaber, basi fruticosus; caulibus floridis ramisve virgatis simplicissimis glaucis; foliis ternato-verticillatis lineari-lanceolatis (pollicaribus) utrinque acutis subsessilibus rigidis cartilagineo-serratis denticulatisve, floralibus subulatis; paniculâ angustatâ; calyce (segmentis lanceolato-ovatis) pedicellisque glanduloso-puberis; corollâ (purpureâ? extus pruinoso-puberulâ) longè cylindricâ, limbo brevi, labiis æquilongis, superiore oblongo erecto apice bifido, inferiore tripartito, segmentis patentibus angustè oblongis; filamento sterili corollâ dimidio breviore hinc valdè barbato.—

Stems or simple branches slender, one or two feet long, leafy to the inflorescence, the leaves about the length of the internodes. Flowers in a virgate panicle. Tube of the corolla an inch long, only two lines in diameter, scarcely ampliate at the summit, the lobes and upper lip only three lines long. Fertile filaments glabrous except at their base, where they are sparsely hirsute; anthers scarcely exserted, glabrous; sterile filament very strongly bearded on the posterior side for its whole length. A very distinct species of Bentham's section *Elmigera;* the leaves in threes in all the specimens.

64. PENTSTEMON LÆTUS (sp. nov.): pallidus, puberulus, supernè glandulosus; caulibus subpedalibus adscendentibus; integerrimis crassiusculis, inferioribus spatulatis seu oblanceolatis in petiolum marginatum attenuatis, superioribus oblongo-lanceolatis basi latâ arctè sessilibus, floralibus parvis; paniculâ laxâ; pedunculis sæpius trifloris; calycis segmentis oblongis herbaceis immarginatis; corollâ cœruleâ supernè campanulato-ampliatâ, lobis rotundatis subæqualibus; antheris (§ Saccantheræ) rimâ hispido-ciliatis juxta insertionem villosulis; filamento sterili glaberrimo apice dilatato.—A depauperate specimen of this is what, in the account of Lieut. Beckwith's collection, (Pacific Railroad Explorations, 2, p. 122,) I doubtfully referred to *P. heterophyllus*. It proves to be a very distinct species of the same section, and a handsome one, the (apparently bright blue) corolla over an inch in length.

65. Mimulus cardinalis, *Dougl.*
66. " luteus, *Linn.*
67. Eunanus Fremonti, Benth. *var.*
68. Castilleia affinis, *Hook. & Arn.*
69. " hispida, *Hook. & Arn.*
70. " candens, *Durand & Hilgard, in Pacif. R. R. Expl.* 5, pp. 12, 13?
71. Castilleia linariæfolia, *Benth.* (Folia floralia sæpius trifida; calyx posticè etiam bifidus; corolla nunc bipollicaris.)
72. Orthocarpus purpurascens, *Benth.*
73. Solanum umbelliferum, *Eschsch.*
74. Datura meteloides, *DC.*
75. Nicotiana, n. sp.? N. plumbaginifolia, *var.?* Bigelovii, *Torr. in Pacif. R. R. Expl.* 4, p. 127.
76. Mentha Canadensis, *Linn.*
77. Monardella candicans, *Benth.*
78. Salvia Columbariæ, *Benth.*
79. " carduacea, *Benth.*
80. Stachys pycnantha, *Benth. & var.* foliis albo-tomentosis.
81. Amsinckia spectabilis, *Fisch. & Meyer.*
82. Amsinckia spectabilis, *var.* minor.
83. Eritrichium fulvum, *A. DC.*
84. Krynitzia leiocarpa, *Fisch. & Meyer.*
85. Eritrichium angustifolium, *Torr. in Pacif. R. R.* 5, p. 363.
86. Eritrichium, n. sp.? too young to characterize.
87. Nemophila insignis, *Dougl.*
88. Ellisia membranacea, *Benth.*

89. Phacelia circinata, *Jacq.*
90. " tanacetifolia, *Benth.*
91. " " *var.* tennifolia, *Thurber.*
92. Phacelia ramosissima, *Benth.* forma evoluta.
93. Emmenanthe penduliflora, *Benth.*
94. Eriodyction tomentosum, *Benth.*
95. Gilia densifolia; etiam G. elongata. *Benth.*
96. Gilia achilleæfolia, *Benth.*
97. " tricolor, *Benth.*
98. " (Linanthus) dichotoma, *Benth.*
99. Gilia (Leptosiphon) androsacea, *Benth.*
100. Apocynum cannabinum, *Linn.*
101. Acerates (Anantherix) tomentosa, *Torr. Mex. Bound. Surv.*
102. Asclepias fascicularis, *Decaisne.*
103. Mirabilis (Quamoclidion) multiflora, *Torr.*
104. Blitum Bonus-Henricus, *Moq. var.* (Chenopodium anthelminticum, *var.?* hastatum, *Moquin.*)
105. Eriogonum polifolium, *Benth.*
106. " angulosum, *Benth.*
107. Chorizanthe procumbens, *Nutt.* (An C. staticoides, *var. ?*)

108. CHORIZANTHE (MUCRONEA) PERFOLIATA (sp. nov.): glabella; foliis chartaceis, caulinis triangulatis trilobisve sæpissimè perfoliatis; involucro tetraquetro quadridentato, dentibus subæqualibus subulato-aristulatis; perigonii segmentis exterioribus 2–4–dentatis leviter erosis, interioribus magis laciniato-fimbriatis.—Repeatedly dichotomous from the annual root, divaricate-diffuse, a sessile and solitary involucrum in each fork; on the branchlets the involucres rather crowded and somewhat spicate or panicled, through the less forking and the gradual reduction of the leaves to bracts. Radical leaves spatulate. The cauline leaves are larger, less lobed, more amplexicaul, (and most of them really perfoliate,) and the angles or lobes less awn-pointed than in *C.* (*Mucronea*, Benth.) *Californica;* the four triangular teeth of the involucre also tipped with a shorter awn, not exceeding the perigonium when that is fully developed; the divisions of the latter, especially the three inner ones, conspicuously fimbriate-laciniate. Otherwise this plant closely resembles Bentham's *Mucronea Californica*, and confirms his doubts of the distinctness of the genus from *Chorizanthe*, notwithstanding the peculiarity of habit. *Centrostegia*, with a similar habit, is distinguishable only by the spurred appendages of the involucrum, and is probably to be reduced, along with *Mucronea*, to a section of *Chorizanthe*. To this, however, does not belong Remy's *C. commissuralis*, which differs from true *Chorizanthe* merely in the laxer inflorescence. *Acanthogonum*, Torr. (which has a short-pedicelled flower and nine stamens,) is an interesting link, plainly connecting *Lastarriæa*, Remy, with the other Eriogoneous genera. The verticil-

late upper leaves of the latter answer to the involucre, which, however, incloses a proliferous shoot as well as a flower.

109. Anemonopsis Californica, *Nutt.*
110. Euphorbia albomarginata, *Torr.* (E. stipulacea, *Engelm.*)
111. Quercus lobata, *Née*, (Q. Hindsii, *Benth.*) Foliage only.
112. Ephedra antisyphilitica, *Berl.*
113. Epipactis Americana, *Lindl.*
114. Brodiæa capitata, *Benth.*
115. Calliprora lutea, *Lindl.*
116. Tritelia laxa, *Lindl.*
117. Calochortus venustus, *Benth.*
118. Juncus xiphioides, *E. Meyer.*
119. Polypogon Monspeliensis, *Linn.*
120. Triticum repens, *Linn.*
121. Elymus dasystachys, *Trin. ex Munro in Pl. Hartw.*, p. 342, (= forma luxurians, *Hartw.* No. 2082.)
122. Allosorus andromedæfolius, *Kaulf.*